

Message Text

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ACTION SS-25

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TO SECSTATE WASHDC IMMEDIATE 7466
INFO AMEMBASSY LONDON PRIORITY
AMEMBASSY MOSCOW PRIORITY

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E.O. 11652: XGDS-3
TAGS: PARM US UK UR
SUBJECT: CTB NEGOTIATIONS: PAPER ON OBJECTIVES OF ISIS

CTB MESSAGE NO. 180

FOLLOWING IS TEXT OF INFORMAL US DEL PAPER SUMMARIZING
KEY OBJECTIVES OF INTERNAL SEISMIC INSTALLATIONS (ISIS)
WHICH WARNKE GAVE TO SOVIET DEL AT MARCH 20 HEADS OF
DELEGATION MEETING.
BEGIN TEXT:

OBJECTIVES OF INTERNAL SEISMIC INSTALLATIONS

1. BASIC OBJECTIVES. THE PARTIES SHOULD HAVE AN
EXCHANGE OF ALL THE DATA RECEIVED AT AGREED, DESIGNATED,
NATIONAL SEISMIC INSTALLATIONS. THE INSTALLATIONS SHOULD
HAVE RELIABLE EQUIPMENT WITH AGREED GENERAL TECHNICAL
CHARACTERISTICS, SUCH AS THOSE THAT THE UNITED STATES HAS
PRESENTED. THE CHARACTERISTICS SHOULD BE AGREED UPON IN
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THE TRILATERAL NEGOTIATIONS. THE DATA SHOULD BE AUTHEN-
TICATED AND OF HIGH QUALITY, AND SHOULD BE TRANSMITTED
BY AN AGREED, RELIABLE COMMUNICATIONS SYSTEM IN
REAL TIME OR WITH A SLIGHT DELAY. SPECIFIC TECHNICAL
DETAILS OF THE INSTALLATIONS SHOULD BE AGREED UPON IN
THE JOINT CONSULTATIVE COMMISSION.

REASONS FOR SPECIFIC NEEDS:

AUTHENTICATION: TO GIVE THE PARTIES CONFIDENCE THAT THE DATA BEING RECEIVED IS COMPLETE AND ACCURATE, IN ORDER TO DISPEL DOUBTS ABOUT TREATY COMPLIANCE.

HIGH QUALITY DATA: TO ELIMINATE AMBIGUITY AND REDUCE THE NUMBER OF SEISMIC EVENTS AT EVERY MAGNITUDE LEVEL THAT COULD RAISE QUESTIONS ABOUT COMPLIANCE, AS WELL AS PROVIDE ADDITIONAL INFORMATION TO INCREASE CONFIDENCE IN TREATY COMPLIANCE AT LEVELS BELOW THOSE DETECTABLE BY NATIONAL SEISMIC MEANS.

RELIABILITY OF SEISMIC AND TRANSMISSION SYSTEMS: TO REDUCE PERIODS IN WHICH EQUIPMENT IS NOT WORKING PROPERLY, WHICH COULD CAUSE DOUBTS ABOUT COMPLIANCE DURING SUCH PERIODS, AND TO REDUCE TO AN ABSOLUTE MINIMUM THE NUMBER OF OCCASIONS WHEN PERSONNEL OF THE OTHER PARTY WOULD HAVE TO BE PRESENT FOR REPAIRS.

NEAR REAL TIME TRANSMISSION: TO ENABLE A PARTY TO IDENTIFY AMBIGUOUS SEISMIC EVENTS PROMPTLY, AND TO CORRELATE THE DATA WITH INFORMATION RECEIVED THROUGH NATIONAL TECHNICAL MEANS, IN ORDER TO REDUCE CONCERNS ABOUT COMPLIANCE.

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2. IMPLEMENTING OBJECTIVES

A. THE SEISMOMETERS SHOULD BE EMPLACED IN A DRILLED HOLE. THESE SEISMOMETERS SHOULD HAVE TECHNICAL CHARACTERISTICS AND SENSITIVITY SIMILAR TO THOSE CONTAINED IN THE SEISMIC RESEARCH OBSERVATORIES NOW IN OPERATION IN SEVERAL COUNTRIES.

REASON: THIS TYPE OF HIGH-QUALITY EQUIPMENT REPRESENTS STATE-OF-THE-ART TECHNOLOGY, AND WILL MOST EFFECTIVELY REDUCE CONCERN ABOUT LOW-MAGNITUDE EVENTS. IN ADDITION, THIS TYPE OF EQUIPMENT PRODUCES DIGITAL DATA, WHICH CAN BE AUTHENTICATED AND EFFICIENTLY TRANSMITTED. EMPLACEMENT IN A DRILLED HOLE WILL REDUCE WIND-GENERATED AND OTHER SURFACE NOISE.

B. THE EQUIPMENT SHOULD HAVE BROAD RESPONSE CHARACTERISTICS AND SHOULD INCLUDE BACK-UP COMPONENTS.

REASON: THE BROAD RESPONSE CHARACTERISTICS INCREASE THE UTILITY OF THE INSTALLATIONS FOR IDENTIFICATION PURPOSES. THE BACK-UP COMPONENTS WILL REDUCE THE FRE-

QUENCY OF BREAKDOWN.

C. THE AUTHENTICATION DEVICE SHOULD BE LOCATED IN THE BOREHOLE AND SHOULD ACCOMPLISH ITS FUNCTION BY PERIODICALLY GENERATING A WORD DEPENDENT ON THE SEISMIC DATA AND INSERTING IT INTO THE DATA STREAM. THIS SYSTEM DOES NOT ENCRYPT THE SEISMIC DATA.

REASON: THE AUTHENTICATION DEVICE SHOULD BE IN THE

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BOREHOLE TO ASSURE BOTH SIDES THAT THERE WILL BE NO CONCERNS THAT IT HAS BEEN TAMPERED WITH. THE AUTHENTICATION SYSTEM THAT THE US HAS SUGGESTED WILL ALLOW BOTH PARTIES TO HAVE IMMEDIATE ACCESS TO ALL OF THE SEISMIC DATA. THE HOST PARTY WILL OBTAIN THE KEY TO THE AUTHENTICATION WORDS ON A SLIGHTLY DELAYED BASIS.

D. THE INSTALLATIONS SHOULD TRANSMIT THE DATA TO BOTH PARTIES VIA A RELIABLE SATELLITE SYSTEM.

REASON: THE USE OF SUCH A SATELLITE SYSTEM WOULD ALLOW ALL DATA TO BE MADE AVAILABLE TO THE PARTIES IN REAL TIME OR WITH A SHORT DELAY. OTHER TRANSMISSION SYSTEMS, SUCH AS TELEPHONE LINES, OR THE USE OF MAGNETIC TAPE, WOULD INTRODUCE TOO MANY ERRORS INTO THE DATA STREAM AND COULD RAISE QUESTIONS. THE USE OF EXISTING SATELLITE SYSTEMS OFFERS BY FAR THE LEAST EXPENSIVE AND MOST RELIABLE

MEANS OF SEISMIC DATA EXCHANGE.

E. THE GENERAL LOCATIONS OF INSTALLATIONS SHOULD BE AGREED
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IN THE TRILATERAL NEGOTIATIONS. SPECIFIC SITES NEAR THOSE LOCATIONS SHOULD BE SELECTED BY A PROCEDURE SPECIFIED IN THE AGREEMENT. THIS PROCEDURE SHOULD ASSURE THAT THE SEISMOMETERS WILL BE EMPLACED IN LOCATIONS THAT HAVE BEEN JOINTLY DETERMINED TO BE TECHNICALLY APPROPRIATE, AFTER SUITABLE GEOLOGICAL AND TECHNICAL SURVEYS OF LIMITED SITE SELECTION AREAS.

REASONS: EXCESSIVE NOISE WOULD OBSCURE THE SEISMIC SIGNALS RECEIVED FROM LOW-MAGNITUDE EVENTS AND WOULD DEGRADE THE CAPABILITY OF THE INSTALLATION.

F. INSTALLATION PROCEDURES SHOULD BE AGREED IN THE TRI-LATERAL NEGOTIATIONS AND SHOULD PROVIDE A ROLE FOR BOTH PARTIES DURING THE CRITICAL STAGES. BOTH PARTIES SHOULD OBSERVE DRILLING AND CASING OF THE BOREHOLE, AND THE PARTY OTHER THAN THE HOST PARTY SHOULD EMPLACE THE AUTHENTICATION DEVICE, SUBJECT TO A PROCEDURE TO ASSURE THE HOST THAT THE DEVICE CONTAINS NO EQUIPMENT THAT HAS NOT BEEN AGREED.

REASON: BOTH PARTIES SHOULD HAVE ASSURANCE THAT THE SEISMOMETERS AND AUTHENTICATION DEVICE HAVE BEEN PROPERLY INSTALLED TO ELIMINATE ANY QUESTION CONCERNING AUTHENTICITY OF THE DATA. BOTH PARTIES SHOULD OBSERVE THE PREPARATION OF THE BOREHOLE SO THAT THEY CAN BE ASSURED THAT THE SEISMOMETERS WILL BE PROPERLY COUPLED TO THE EARTH. BOTH PARTIES SHOULD ALSO BE ASSURED THAT THE INSTALLATIONS CONTAIN ONLY AGREED EQUIPMENT.

G. MAINTENANCE AND REPAIR PROCEDURES SHOULD PROVIDE THAT REPRESENTATIVES OF BOTH PARTIES WILL BE PRESENT WHENEVER ACCESS TO THE EQUIPMENT IN THE BOREHOLE IS REQUIRED FOR
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MAINTENANCE OR REPAIRS.

REASON: BOTH PARTIES SHOULD BE ASSURED THAT THERE IS NO POSSIBILITY OF TAMPERING WITH THE EQUIPMENT IN THE BOREHOLE.

H. THE AGREEMENT SHOULD PROVIDE THAT IF THE AGREED COMMUNICATIONS ARE INTERRUPTED, THE INSTALLATION WILL MAKE A BACK-UP RECORDING OF THE DATA THAT WAS NOT TRANSMITTED, WHICH THE HOST WILL PROVIDE.

REASON: THIS WILL ELIMINATE DOUBTS THAT MIGHT ARISE CONCERNING SEISMIC EVENTS DURING PERIODS WHEN THE COMMUNICATION SYSTEM FAILED TO OPERATE. END TEXT. WARNKE

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